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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2012 Air Force	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	32.567	28.441	23.072	-	23.072	22.650	12.298	12.451	12.715	Continuing	Continuing
675059: <i>Strategic War Planning System (SWPS)</i>	10.373	18.904	10.399	-	10.399	10.435	-	-	-	Continuing	Continuing
675282: <i>Joint Navigation Warfare Center (JNWC)</i>	7.979	9.529	9.551	-	9.551	9.686	9.878	10.042	10.220	Continuing	Continuing
675368: <i>GSIN (Global Integrated Sensor Network)</i>	14.215	0.008	3.122	-	3.122	2.529	2.420	2.409	2.495	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command Control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. To enable completion of these missions, USSTRATCOM is modernizing the Integrated Strategic Planning and Analysis Network (ISPAN) (formerly known as SWPS), developing information systems and techniques to counter and conduct Navigation Warfare (NAVWAR) and establishing a unified national architecture integrating disparate Missile Warning/Missile Defense (MW/MD) systems into a single Internet Protocol (IP)-based system known as the Global Sensor Integrated Network (GSIN) to provide redundant and unambiguous MW/MD data to national leadership. When the ISPAN modernization is complete the system will support the warfighter in both deliberate and adaptive planning environments while allowing the National Command Authorities to employ the full spectrum of kinetic and non-kinetic weapons. The ISPAN system will continue to evolve as weapon systems are matured, new systems are developed, and the threat changes, particularly in the area of worldwide proliferation of Weapons of Mass Destruction (WMD). Navigation Warfare (NAVWAR) is a warfighting application of electronic warfare (EW), Information Operations (IO) and space control (SC) employing various techniques and technologies to negate or prevent hostile use of positioning, navigation, and timing (PNT) information and protect unimpeded use of PNT information by U.S., Allied, and Coalition Forces while not unduly disrupting peaceful use outside an area of operation. The Joint Navigation Warfare Center (JNWC) was established to integrate and coordinate NAVWAR PNT capabilities across the mission areas of intelligence, surveillance, reconnaissance, information operations, electronic warfare, and space control. The JNWC is also commissioned to integrate NAVWAR into space operations and assists the warfighter with subject matter expertise to "operationalize" NAVWAR, encouraging the NAVWAR view that the Global Positioning System is a taskable weapons system in addition to being a worldwide PNT service. The JNWC establishes and maintains the Department's premier basis of NAVWAR expertise, and provides subject matter expertise and knowledge support to warfighters, Department decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition through testing and evaluation; modeling, simulation and analysis; and exercise and training support. The Nation's strategic C2, sensors and mission planning programs can not rapidly exchange information across multiple missions, creating ambiguity that delays time critical national C2 decision making processes. GSIN establishes a unified national architecture integrating disparate MW/MD systems into a single IP-based system providing redundant and unambiguous MW/MD data to national leadership. GSIN nets together all sensors, from tactical to strategic, including the Nation's most modern and capable assets - taking advantage of their larger numbers, improved algorithms, mobility and forward deployment to provide earlier cross-cueing and expanded decision space when every second counts. GSIN will permit an IP-based

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>
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User Defined Operational Picture (UDOP) to augment voice conferencing and rapidly build a single, unambiguous missile event picture allowing real-time senior collaboration for nuclear C2 and improved senior leader situational awareness (SA) and decision-making.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2010</u></b>	<b><u>FY 2011</u></b>	<b><u>FY 2012 Base</u></b>	<b><u>FY 2012 OCO</u></b>	<b><u>FY 2012 Total</u></b>
Previous President's Budget	33.746	28.441	20.026	-	20.026
Current President's Budget	32.567	28.441	23.072	-	23.072
Total Adjustments	-1.179	-	3.046	-	3.046
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-0.141	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.038	-			
• Other Adjustments	-	-	3.046	-	3.046

**Change Summary Explanation**

FY12 increase of \$3.046 is for the Global Sensor Integrated Network (GSIN) effort.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675059: Strategic War Planning System (SWPS)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
675059: Strategic War Planning System (SWPS)	10.373	18.904	10.399	-	10.399	10.435	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command Control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. To enable these missions, the Integrated Strategic Planning and Analysis Network (ISPAN) (formerly known as SWPS) must be capable of both deliberate and adaptive planning employing the full spectrum of kinetic and non-kinetic weapons. The planning system will continue to evolve as weapon systems are matured, new systems are developed, and the threat changes, particularly in the area of worldwide proliferation of Weapons of Mass Destruction (WMD).

The ISPAN modernization program includes initiation of Course of Action (COA) Development as a service to the DoD enterprise, workflow and decision support development, Combatant Commander (COCOM) Collaboration (Global Operations Center Collaborative Environment (GOC CE), User Defined Operational Picture (UDOP)), conventional mission planning integration, and Mission Planning Analysis System (MPAS) maintenance and modernization. This includes software coding, integration of multiple internal and external planning applications, as well as developmental and early operational test activities. ISPAN also includes automated data processing equipment (ADPE), software, facilities support, manpower, and training to support the mission objectives of ISPAN, associated deployable and distributed data processing nodes, and subsidiary systems. Activities also include studies and analysis to support both current program planning and execution and future program planning.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b>Title:</b> ISPAN Block 1 Post- IOC Enhancement	3.230	-	-	-	-
<b>Description:</b> Funds Post IOC enhancements of web services and develop solutions for Information Assurance deficiencies.					
<b>FY 2010 Accomplishments:</b>					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force				DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM		PROJECT 675059: Strategic War Planning System (SWPS)			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Funds used to develop Post IOC enhancements for web services and develop solutions for Information Assurance deficiencies.  FY 2011 Plans:  FY 2012 Base Plans:  FY 2012 OCO Plans:							
Title: ISPAN Increment 2 Modernization  Description: Funds the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Increment 2 continues by building on capabilities delivered in Block 1. Increment 2 will develop advanced decision support capabilities for senior leader situational awareness through enhanced data analysis and visualization, and expand development of services and operational nodes to support Global Information Grid (GIG) Enterprise services and distributed operation.  FY 2010 Accomplishments: Funded the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE) by building on capabilities delivered in Block 1. Developed advanced decision support capabilities for senior leader situational awareness through enhanced data analysis and visualization, and expand development of services and operational nodes to support GIG Enterprise services and distributed operation.  FY 2011 Plans: Increment 2 continues by building on capabilities delivered in Block 1. Increment 2 will develop advanced decision support capabilities for senior leader situational awareness through enhanced data analysis and visualization, and expand development of services and operational nodes to support GIG Enterprise services and distributed operation.  FY 2012 Base Plans: Funds will complete development activities for CIE and the development activities for Net-centricity and enhanced planning capabilities.  FY 2012 OCO Plans:			7.143	18.698	9.695	-	9.695
Title: Increment 3 Modernization			-	0.206	0.704	-	0.704

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force							DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development			R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM			PROJECT 675059: Strategic War Planning System (SWPS)					
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p><b>Description:</b> Funds pre-Milestone B risk reduction activities for the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Builds on the capabilities and technology developed in Block 1 and Increment 2, to achieve a more complete implementation of the joint operation planning process that includes collaborative campaign/contingency planning and integrated COA development to meet the desired crisis action and time sensitive planning timelines.</p> <p><b>FY 2010 Accomplishments:</b></p> <p><b>FY 2011 Plans:</b> Funds pre-Milestone B risk reduction activities for the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Builds on the capabilities and technology developed in Block 1 and Increment 2, to achieve a more complete implementation of the joint operation planning process that includes collaborative campaign/contingency planning and integrated COA development to meet the desired crisis action and time sensitive planning timelines.</p> <p><b>FY 2012 Base Plans:</b> Funds pre-Milestone B risk reduction activities for the next increment of planning tools for the ISPAN Collaborative Information Environment (CIE). Builds on the capabilities and technology developed in Block 1 and Increment 2, to achieve a more complete implementation of the joint operation planning process that includes collaborative campaign/contingency planning and integrated COA development to meet the desired crisis action and time sensitive planning timelines.</p> <p><b>FY 2012 OCO Plans:</b></p>											
Accomplishments/Planned Programs Subtotals							10.373	18.904	10.399	-	10.399
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• PE 0101313F: OPAF	12.589	13.344	13.240	0.000	13.240	9.917	7.863	6.975	7.101	Continuing	Continuing
• PE 0101313F (1): O&M	28.509	0.183	13.282	0.000	13.282	13.186	7.191	6.998	7.103	Continuing	Continuing
D. Acquisition Strategy											
ISPAN will develop and modernize strategic planning tools for the combatant commanders using an evolutionary acquisition strategy with development contracts that are negotiated and awarded in a competitive environment.											

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	<b>PROJECT</b> 675059: <i>Strategic War Planning System</i> (SWPS)

**E. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				675059: Strategic War Planning System (SWPS)					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Vehicle Planning System (APS)	TBD	BAE:San Diego, CA	-	-		-		-		-	0.000	0.000	47.100
Missile Graphics Planning System (MGPS)	C/CPAF	Northrop Grumman:Bellevue, NE	1.484	-		-		-		-	0.000	1.484	41.000
Targeting	C/CPAF	SAIC:San Diego, CA	-	-		-		-		-	0.000	0.000	36.200
ISPAN Modernization	C/CPAF	Lockheed Martin Integrated Systems:Papillion, NE	13.198	15.288	Dec 2010	6.818	Dec 2011	-		6.818	25.181	60.485	164.783
Miscellaneous Contracts	C/CPAF	TBD:TBD,	6.305	3.616	Dec 2010	3.581	Dec 2011	-		3.581	5.546	19.048	TBD
Classified Project (FY08 Supplemental)	TBD	TBD:TBD	-	-		-		-		-	0.000	0.000	0.000
Subtotal			20.987	18.904		10.399		-		10.399	30.727	81.017	
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force							<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS - USSTRATCOM</i>				<b>PROJECT</b> 675059: <i>Strategic War Planning System (SWPS)</i>		
	<b>Total Prior Years Cost</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>	20.987	18.904	10.399	-	10.399	30.727	81.017		
<b>Remarks</b>									

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	<b>PROJECT</b> 675059: <i>Strategic War Planning System</i> <i>(SWPS)</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	<b>PROJECT</b> 675059: <i>Strategic War Planning System</i> (SWPS)	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ISPAN Block 1 FOC	3	2010	3	2010
ISPAN Increment 2 MS B	4	2010	4	2010
ISPAN Increment 2 Development	4	2010	2	2012
ISPAN Increment 2 IOC	3	2012	3	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675282: Joint Navigation Warfare Center (JNWC)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
675282: Joint Navigation Warfare Center (JNWC)	7.979	9.529	9.551	-	9.551	9.686	9.878	10.042	10.220	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

Navigation Warfare (NAVWAR) is a warfighting application of electronic warfare (EW), Information Operations (IO), and space control (SC) employing various techniques and technologies to negate or prevent hostile use of positioning, navigation, and timing (PNT) information and protect unimpeded use of PNT information by U.S., Allied, and Coalition Forces while not unduly disrupting peaceful use outside an area of operation. The Joint Navigation Warfare Center (JNWC) integrates and coordinates NAVWAR PNT capabilities across the mission areas of intelligence, surveillance, reconnaissance, information operations, electronic warfare, cyber and space control. The JNWC establishes and maintains the Department's premier basis of NAVWAR expertise, and provides subject matter expertise and knowledge support to warfighters, Department decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition through testing and evaluation; modeling, simulation and analysis; and exercise and training support. In recent years, the Global Positioning System (GPS) has become one of the most critical enablers of modern, advanced technology warfare. In an era where everything from advanced weapons systems to basic goods and services are tracked or guided by navigation systems such as GPS, Navigation Warfare is an interest and concern, especially if those systems are interrupted or lost. Likewise, as Global Navigation Satellite Systems (GNSS) proliferate, it becomes necessary to consider not only denying adversary use of GPS but also negating adversary use of alternate GNSS systems for PNT. The primary mission of the JNWC is to provide joint warfighter NAVWAR support through three broad mission areas:

- a. Warfighter Operational Support – The JNWC applies knowledge of PNT vulnerabilities, prevention capabilities, and system operations to integrate NAVWAR as an element of warfighting operations. The JNWC provides reach-back capabilities to assist in resolving NAVWAR issues, address situations involving degradation or denial of PNT capabilities, and recommend actions to mitigate effects of both hostile and non-hostile events. The JNWC develops and maintains current information for the warfighter and theater commanders to include assessments of adversary capabilities, assessments of coalition capabilities and limitations, and other topics of special interest. The JNWC also provides subject matter expertise and knowledge support to Department acquisition and policy decision makers, the Federal Interagency (the Department of Homeland Security and other civil agencies concerned with the Critical National Infrastructure), and the coalition.
- b. Test, Training, Exercises, and Experiments – This JNWC mission area is the centerpiece for maintaining NAVWAR currency of information for the warfighter. The JNWC conducts annual NAVWAR field test events, and provides NAVWAR technical assistance for training, exercises and experiments. The JNWC, as part of this effort, maintains Integrated Joint NAVWAR Test Roadmaps and current intelligence products on adversary NAVWAR capabilities and Coalition NAVWAR capabilities and vulnerabilities. JNWC GYPSY field test events focus on fielded operational systems and capabilities to integrate NAVWAR and PNT operations, to baseline current NAVWAR electronic protection, support, and attack capabilities, and to assist warfighters optimize and deconflict theater/tactical assets. JNWC FORTUNE field test events are more engineering focused and are used to evaluate specific NAVWAR capabilities or vulnerabilities, and to reduce engineering risk for GYPSY events. Test, training, exercise and experiment activities: 1) prepare the joint warfighter for operations in current and rapidly evolving NAVWAR threat environments; 2) establish

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011				
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priorities, standardized operational procedures for tactics, techniques, and procedures; 3) test electronic attack CONOPs to endure deconfliction and optimization with other operations to mitigate blue force fratricide; and 4) evolve standardized test methods.							
c. Navigation Warfare Information Analysis Center (IAC) – The JNWC develops and maintains methods, standards, models and simulations used in NAVWAR analysis and operates the NAVWAR Information Analysis Center (IAC). JNWC evaluates new models for accuracy and applicability to specific situations and rapidly evolving threat environments. It also develops and maintains standard test methodologies created solely by the U.S. as well as test methods developed in collaboration with coalition partners. These standard methodologies ensure data sharing is efficient and effective, and ensures accurate feedback to the operational communities. The JNWC, as part of this effort, manages the GPS EA Frequency Clearance process and conducts independent analysis and verification of EA frequency clearance requests. It also maintains and upgrades the Global Positioning System Reliability Prediction Model (GPS-RPM) frequency clearance model as required and conducts modeling and simulation exercises on GPS interference to include test and exercise threat laydowns for DoD organizations unable to perform their own modeling. The NAVWAR IAC serves as a source of NAVWAR information and technical expertise for DoD researchers, engineers, program managers, warfighters, testers, and others. It collects, analyzes, synthesizes, and disseminates scientific and technical information in clearly defined specialized subject areas. It promotes standardization by: 1) providing in-depth analyses; 2) creating products that respond to technical inquiries; 3) preparing state-of-the-art reports, handbooks, and databases; 4) conducting technology assessments; and 5) supporting the exchange of information within the NAVWAR community. Activities also include studies and analysis to support both current program planning and execution and future program planning.							
This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.							
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: NAVWAR Operational Warfighter Support			1.780	2.223	2.205	-	2.205
Description: NAVWAR Operational Warfighter Support							
FY 2010 Accomplishments: Funds provided COCOM reachback analysis and developed adversary, threat and intel assessments.							
FY 2011 Plans: Funds provide COCOM reachback analysis and develop adversary, threat and intel assessments.							
FY 2012 Base Plans: Funds will provide COCOM reachback analysis and develop adversary, threat and intel assessments.							
FY 2012 OCO Plans:							
Title: NAVWAR Test, Training, Exercises and Experiments			3.041	3.465	3.545	-	3.545
Description: Funds will support Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments.							

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>FY 2010 Accomplishments:</b> Funds supported FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments. <b>FY 2011 Plans:</b> Funds support FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments. <b>FY 2012 Base Plans:</b> Funds will support FORTUNE and GYPSY Field Tests, NATO trials, U.S. PNT Tests, Exercises and Experiments. <b>FY 2012 OCO Plans:</b>						
<b>Title:</b> NAVWAR Modeling, Simulation, Tools and Methods <b>Description:</b> Funds support the Information Analysis Center (IAC) to develop Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analyses. <b>FY 2010 Accomplishments:</b> Funds supported the Information Analysis Center (IAC)in development of Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analyses. <b>FY 2011 Plans:</b> Funds support the Information Analysis Center (IAC), develop Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analyses. <b>FY 2012 Base Plans:</b> Funds will support the Information Analysis Center (IAC), develop Global Positioning System Reliability Prediction Model (GPS-RPM) Upgrades, GPS frequency clearance evaluations, modeling and simulation methodologies, standards and analyses. <b>FY 2012 OCO Plans:</b>		3.158	3.841	3.801	-	3.801
Accomplishments/Planned Programs Subtotals		7.979	9.529	9.551	-	9.551

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	<b>PROJECT</b> 675282: <i>Joint Navigation Warfare Center</i> <i>(JNWC)</i>	

**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• N/A:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

**D. Acquisition Strategy**

NAVWAR will investigate, test, and simulate potential threats and mitigation strategies for preventing the hostile use of Positioning, Navigation and Timing (PNT) information through the use of competitive contracts and selective employment of government agencies.

**E. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675282: Joint Navigation Warfare Center (JNWC)						
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
NAVWAR Warfighter Operational Support	C/TBD	Overlook Systems Technologies Inc:Vienna VA; Kirtland AFB, NM	1.780	2.223	Dec 2010	2.205	Dec 2011	-		2.205	Continuing	Continuing	TBD	
NAVWAR Modeling, Simulation, Tools & Methods and Integrated Analysis Center	C/CPAF	Overlook Systems Technologies Inc:Vienna VA; Kirtland AFB, NM	3.158	3.841	Dec 2010	3.545	Dec 2011	-		3.545	Continuing	Continuing	TBD	
Subtotal			4.938	6.064		5.750		-		5.750				
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
FORTUNE and GYPSY field tests, NATO trials, US Tests, Exercises and Experiments	PO	Multiple Gov Agencies:Vienna VA; Kirtland AFB, NM	3.041	3.465	Dec 2010	3.801	Dec 2011	-		3.801	Continuing	Continuing	TBD	
Subtotal			3.041	3.465		3.801		-		3.801				
Remarks Multiple Government Agencies and Test Ranges														

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force											<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>				<b>PROJECT</b> 675282: <i>Joint Navigation Warfare Center</i> <i>(JNWC)</i>					

  

<b>Management Services (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Subtotal</b>			-	-		-		-		-	0.000	0.000	0.000

  

	<b>Total Prior Years Cost</b>	<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	7.979	9.529		9.551		-		9.551			

  

**Remarks**



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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	PROJECT 675282: <i>Joint Navigation Warfare Center</i> <i>(JNWC)</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	<b>PROJECT</b> 675282: <i>Joint Navigation Warfare Center</i> <i>(JNWC)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
NAVWAR Operational Support Contract Award	1	2011	1	2011
NAVWAR Test, Training, Exercises & Experiments - FORTUNE Field Tests	1	2011	2	2011
NAVWAR Test, Training, Exercises & Experiments - NATO Trials & Exercises	3	2011	3	2011
NAVWAR Test, Training, Exercises & Experiments - FORTUNE Field Tests (1)	2	2012	2	2012
NAVWAR Test, Training, Exercises & Experiments - GYPSY HOTEL Tests	3	2012	3	2012
GPS Frequency Clearance	1	2012	4	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675368: GSIN (Global Integrated Sensor Network)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
675368: GSIN (Global Integrated Sensor Network)	14.215	0.008	3.122	-	3.122	2.529	2.420	2.409	2.495	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

The mission of USSTRATCOM is to establish and provide full-spectrum global strike, coordinated space and information operations capabilities to meet both deterrent and decisive national security objectives, and to provide operational space support, integrated missile defense, Global Command control Communications and Computers Intelligence Surveillance and Reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. This mission has been defined by the 2002 Unified Command Plan (UCP) changes 1 and 2. GSIN nets together all sensors, from tactical to strategic, including the Nation's most modern and capable assets, taking advantage of their larger numbers, improved algorithms, mobility and forward deployment to provide earlier cross-cueing and expanded decision space when every second counts. GSIN will permit an IP-based User Defined Operating Picture (UDOP) to augment voice conferencing and rapidly build a single, unambiguous missile event picture allowing real-time senior collaboration for nuclear C2 and improved senior leader situational awareness (SA) and decision-making.

The Nation's strategic C2, sensors and mission planning programs can not rapidly exchange information across multiple missions, creating ambiguity that delays time critical national C2 decision making processes. The problem is most evident in the Department's missile warning (MW) and missile defense (MD) programs. GSIN establishes a unified national architecture integrating disparate MW/MD systems into a single IP-based system providing redundant and unambiguous MW/MD data to national leadership. Activities also include studies and analysis to support both current program planning and execution and future program planning.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b>Title:</b> GSIN Increment 1 Missile Defense (MD)	7.000	-	-	-	-
<b>Description:</b> Funds will design and develop Missile Defense (MD) harmonized data and exposure services. Implementation plans will be developed for the incremental software to mature data exposure capabilities and migrate data to a common, XML net enabled command capability solution. Provide individual sensor and event track data, status and health data, additional information assurance capabilities and public key infrastructure certificate software management on secret networks (SIPRnet)					
<b>FY 2010 Accomplishments:</b>					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM	PROJECT 675368: GSIN (Global Integrated Sensor Network)				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Funds designed and developed Missile Defense (MD) harmonized data and exposure services. Options and implementation plans developed for the incremental software to mature data exposure capabilities and migrate data to a common, XML net-enabled command capability solution. The MD visualization service and data correlation risk reduction evaluation capability was also developed  <b>FY 2011 Plans:</b>  <b>FY 2012 Base Plans:</b>  <b>FY 2012 OCO Plans:</b>						
<b>Title:</b> GSIN Visualization Services, Demonstrations and Studies  <b>Description:</b> Funds development of integrated Missile Warning and Missile Defense visualization service to display data in a common operational picture. Conducts studies and demonstrations of data correlation, data filtering services for risk reduction evaluations.  <b>FY 2010 Accomplishments:</b> Funded development of integrated Missile Warning and Missile Defense visualization service to display data in a common operational picture. Conducted studies and demonstrations of data correlation, data filtering services for risk reduction evaluations.  <b>FY 2011 Plans:</b>  <b>FY 2012 Base Plans:</b> Funds will develop modifications and enhancements to visualization and data services; Continue studies to include demonstration and evaluation of a Resource Broker capability  <b>FY 2012 OCO Plans:</b>		4.605	-	1.250	-	1.250
<b>Title:</b> GSIN Increment 1 Common XML Data Schema  <b>Description:</b> Funds will develop a common, XML net enabled data schema to integrate Missile Warning, Missile Defense sensor data for DISA Secret and below interoperability; create and coordinate Information Assurance documentation; support security test and evaluation; conduct developmental, no-degradation and operational testing and register data schema and services.  <b>FY 2010 Accomplishments:</b>		2.610	0.008	1.872	-	1.872

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force						<b>DATE:</b> February 2011						
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>			<b>PROJECT</b> 675368: <i>GSIN (Global Integrated Sensor Network)</i>						
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>						<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>		
<p>Funds developed a common, XML net enabled data schema integrating Missile Warning, Missile Defense sensor data for DISA Secret and below interoperability; created and coordinated Information Assurance documentation; supported security test and evaluation; conducted developmental, no-degradation and operational testing and registered data schema and services.</p> <p><b><i>FY 2011 Plans:</i></b> Funds incremental development of common schema to integrate Space Situational Awareness and Theater Missile Warning data; support security test and evaluation; conduct development, non-degradation and ops testing.</p> <p><b><i>FY 2012 Base Plans:</i></b> Funds will continue incremental development of common schema to integrate Space Situational Awareness and Theater Missile Warning data; support security test and evaluation; conduct development, non-degradation and ops testing.</p> <p><b><i>FY 2012 OCO Plans:</i></b></p>												
<b>Accomplishments/Planned Programs Subtotals</b>						14.215	0.008	3.122	-	3.122		
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
	<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
•	N/A:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
<b>D. Acquisition Strategy</b>												
GSIN will use various existing contract vehicles to manage, develop and modernize the combined Missile Warning/Missile Defense data exposure architecture and solution.												
<b>E. Performance Metrics</b>												
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force										DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM				PROJECT 675368: GSIN (Global Integrated Sensor Network)						
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Missile Defense software development	C/CPAF	Lockheed Martin:Gaithersburg, MD	7.000	0.008	Feb 2011	-		-		-	Continuing	Continuing	TBD	
Data Correlation, Visualization Architecture, Data Filtering Studies	C/CPAF	MIT/LL:Boston, MA	4.605	-		1.800	Feb 2012	-		1.800	0.000	6.405	0.000	
Common Schema	C/CPAF	BAH:Omaha, NE	1.932	-		1.322	Feb 2012	-		1.322	0.000	3.254	0.000	
Subtotal			13.537	0.008		3.122		-		3.122				
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Functional management support	C/CPAF	Various:Various,	0.328	-		-		-		-	Continuing	Continuing	0.000	
Development Review and Management	C/TBD	Various:Various,	0.350	-		-		-		-	0.000	0.350	0.000	
Subtotal			0.678	-		-		-		-			0.000	
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force							<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>			<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>				<b>PROJECT</b> 675368: <i>GSIN (Global Integrated Sensor Network)</i>		
	<b>Total Prior Years Cost</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>	14.215	0.008	3.122	-	3.122				
<b>Remarks</b>									

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	PE 0101313F: STRAT WAR PLANNING SYS - USSTRATCOM	675368: GSIN (Global Integrated Sensor Network)



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101313F: <i>STRAT WAR PLANNING SYS -</i> <i>USSTRATCOM</i>	<b>PROJECT</b> 675368: <i>GSIN (Global Integrated Sensor Network)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Increment 2 contract award	2	2011	2	2011
Increment 2 Spiral Capability	1	2013	1	2014
Increment 3 contract award	2	2012	2	2012
Increment 3 Spiral Capability	1	2014	1	2015
Increment 4 contract award	3	2013	3	2013
Increment 4 Spiral Capability	2	2015	2	2016
Increment 5 contract award	3	2014	3	2014
Increment 5 Spiral capability	2	2016	2	2016

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